Causation vs Correlation

Name: Date:





Causation vs. Correlation: What's the Difference?

Read the definitions and examples carefully to understand the difference between causation and correlation.

Definitions:

Causation: When one event causes another event to happen. There is a cause-and-effect relationship.

Example: Eating lots of sugary snacks causes cavities.

Correlation: When two events happen at the same time or in a similar pattern but one does not necessarily cause the other.

Example: Ice cream sales and drowning incidents both increase in the summer, but eating ice cream does not cause drowning.

Decide if the sentence is an example of causation of correlation
When there is more sunlight, plants tend to grow faster.
O correlation O causation
As the temperature increases, the number of people swimming at the beach also increases.
O causation O correlation
Deforestation leads to a decrease in the number of animal species in an area.
O correlation O causation
Areas with higher levels of air pollution have higher rates of respiratory diseases.
O correlation O causation
The more time spent outside, the more likely a person is to have a sunburn.
O causation O correlation
Regions with higher rainfall have more lush vegetation.
O correlation O causation
During full moon, there is an increase in the number of animal attacks reported.
O causation O correlation